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APPARATUS AND METHOD FOR ELECTRONIC THROTTLE CONTROL POWER MANAGEMENT ENHANCEMENTS

ABSTRACT OF THE DISCLOSURE

A controller estimates a temperature of a catalytic converter in a vehicle and determines an engine speed. The controller shuts off fuel to the engine if the estimated temperature is greater than a maximum temperature of the catalytic converter and the engine speed is greater than a maximum engine speed. If the estimated catalytic converter temperature is greater than the maximum temperature, the controller delays a spark retard request to the engine. The controller updates vehicle torque with an integral torque if an RPM error is within an RPM error range and vehicle speed is less than a maximum vehicle speed for a first period. The controller increases torque to the engine by a proportional torque if an RPM error is within an RPM error range to prevent engine stall. The controller updates the integral torque when the RPM error is within an RPM error range for a first period.